



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Perfluorocarbon (PFC) Analysis

Lot #: D9L150578

Dena Haverland

Dalton Utilities
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January 11, 2010

Case Narrative

D9L150578

TestAmerica Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the methods summary page in accordance with the methods indicated. Dilution factors and footnotes are provided on each datasheet to assist in the interpretation of the results.

The results relate only to the samples in this report and meet all requirements of NELAC. All data have been reviewed for compliance with the laboratory QA/QC plan and have found to be compliant with laboratory protocols with any exceptions noted below.

Please note that Non-Detect (ND) results have been evaluated down to the Method Detection Limit (MDL) and should be considered ND at the MDL. Unless otherwise noted, results for solids have been dry weight corrected.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Sample Arrival and Receipt

The following report contains the analytical results for five samples received at TestAmerica Denver on December 15, 2009, according to documented sample acceptance procedures. The samples were received in good condition at a temperature of 5.0°C. No anomalies were encountered during sample receipt.

Standards

Analytical standards were prepared using commercially available certified solutions containing all compounds of interest.

The mass labeled compounds 13C4 PFBA, 13C2 PFHxA, 18O2 PFHxS, 13C4 PFOA, 13C4 PFOS, 13C5 PFNA, 13C2 PFDA, 13C2 PFUnA, 13C2 PFDoA, and D3 MeFOSA were introduced at the extraction step and were used for internal standards for the quantitation of the target compounds.

Sample Extraction and Analysis

The samples presented in this report were extracted for the target analytes by TestAmerica Denver's Standard Operating Procedure (SOP) DV-OP-0019 and analyzed for the target analytes by TestAmerica Denver's SOP DV-LC-0012.

Method QC Samples

The Method Blank is processed reagent water spiked with internal standard and prepared with each batch of 20 samples of the same matrix. The method blanks were non-detect at the reporting limits for the target analytes.

Each batch is prepared with low and mid level Laboratory Control Samples (LCS). The LCS recoveries for both levels were within established control limits.

Analytical Comments

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, all five samples had to be analyzed at dilutions. The reporting limits have been adjusted relative to the dilutions required.

Lot #: D9L150578

The laboratory generated MS/MSD associated with QC batch 9350234 exhibited spike compound recoveries, RPD data, and internal standard recoveries outside the QC control limits for several compounds. The acceptable low-level and mid-level LCS analyses data indicated the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Sample 12-11-09-02 exhibited an internal standard recovery outside the control limits for 13C2 PFDoA. The 13C2 PFDoA recovery was within the laboratory's historical limits (26-130%); therefore, corrective action is deemed unnecessary.

The Standard Operating Procedure (SOP) was altered slightly for these samples in the sample prep and LC conditions. The alterations are listed below.

Solvents are now the same as they were in the original SOP and run per the following gradient: From 0 to 11 minutes, the flow rate is 0.4 mL/minute and the MeOH ramps up from 25% to 100%. From 11 to 11.01 minutes, the flow rate increases to 0.7 mL/minute and this flow is diverted from the MS. At 13 minutes the flow rate decreases back down to 0.4 mL/minute and 25% MeOH. The column then equilibrates to 14 minutes.

PFTriA and PFTeA now use 13C2 PFUnA as their internal standard instead of 13C2 PFDoA.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D9L150578

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
12-10-09-01 12/10/09 14:40 001				
Perfluorooctane sulfonamide (F 88	70	ug/kg	DEN -LC-0012	
Perfluoroundecanoic acid (PFUn 200	70	ug/kg	DEN -LC-0012	
Perfluorotetradecanoic acid (P 27 J	70	ug/kg	DEN -LC-0012	
Perfluorododecanoic acid (PFDo 200	70	ug/kg	DEN -LC-0012	
Perfluorotridecanoic acid (PFT 63 J	70	ug/kg	DEN -LC-0012	
Perfluorohexanoic acid (PFHxA) 17 J	28	ug/kg	DEN -LC-0012	
Perfluoroheptanoic acid (PFHpA 13 J	28	ug/kg	DEN -LC-0012	
Perfluorononanoic acid (PFNA) 29	28	ug/kg	DEN -LC-0012	
Perfluorodecanoic acid (PFDA) 330	28	ug/kg	DEN -LC-0012	
Perfluorobutane sulfonate (PFB 39	28	ug/kg	DEN -LC-0012	
Perfluorooctanesulfonate	70	ug/kg	DEN -LC-0012	
Perfluorooctanoic Acid	79	ug/kg	DEN -LC-0012	
Percent Moisture	29	0.10	%	ASTM D 2216-90
12-10-09-02 12/10/09 15:23 002				
Perfluorododecanoic acid (PFDo 23 J	76	ug/kg	DEN -LC-0012	
Perfluorohexanoic acid (PFHxA) 3.4 J	31	ug/kg	DEN -LC-0012	
Perfluorononanoic acid (PFNA) 13 J	31	ug/kg	DEN -LC-0012	
Perfluorodecanoic acid (PFDA) 53	31	ug/kg	DEN -LC-0012	
Perfluorooctanesulfonate	57	31	ug/kg	DEN -LC-0012
Percent Moisture	34	0.10	%	ASTM D 2216-90
12-11-09-01 12/11/09 13:45 003				
Perfluorododecanoic acid (PFDo 31 J	83	ug/kg	DEN -LC-0012	
Perfluorohexanoic acid (PFHxA) 9.0 J	33	ug/kg	DEN -LC-0012	
Perfluorononanoic acid (PFNA) 22 J	33	ug/kg	DEN -LC-0012	
Perfluorodecanoic acid (PFDA) 120	33	ug/kg	DEN -LC-0012	
Perfluorobutane sulfonate (PFB 40	33	ug/kg	DEN -LC-0012	
Perfluorooctanesulfonate	12 J	33	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	38 J	83	ug/kg	DEN -LC-0012
Percent Moisture	40	0.10	%	ASTM D 2216-90
12-11-09-02 12/11/09 14:30 004				
Perfluoroundecanoic acid (PFUn 52 J	66	ug/kg	DEN -LC-0012	
Perfluorododecanoic acid (PFDo 92	66	ug/kg	DEN -LC-0012	
Perfluorotridecanoic acid (PFT 27 J	66	ug/kg	DEN -LC-0012	
Perfluorohexanoic acid (PFHxA) 5.6 J	26	ug/kg	DEN -LC-0012	
Perfluorononanoic acid (PFNA) 12 J	26	ug/kg	DEN -LC-0012	
Perfluorodecanoic acid (PFDA) 130	26	ug/kg	DEN -LC-0012	
Perfluorobutane sulfonate (PFB 42	26	ug/kg	DEN -LC-0012	

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D9L150578

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
12-11-09-02 12/11/09 14:30 004				
Perfluorooctanesulfonate	45	26	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	23 J	66	ug/kg	DEN -LC-0012
Percent Moisture	24	0.10	%	ASTM D 2216-90
12-11-09-03 12/11/09 15:20 005				
Perfluorooctane sulfonamide (F 36 J)	120		ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn 190)	120		ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo 250)	120		ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT 64 J)	120		ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA) 10 J	46		ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA) 34 J	46		ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA) 270	46		ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB 55)	46		ug/kg	DEN -LC-0012
Perfluorooctanesulfonate	110	46	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	64 J	120	ug/kg	DEN -LC-0012
Percent Moisture	57	0.10	%	ASTM D 2216-90

METHODS SUMMARY

D9L150578

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
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Method for Determination of Water Content of Soil ASTM D 2216-90 ASTM D2216-90

References:

ASTM Annual Book Of ASTM Standards.

DEN Severn Trent Laboratores, Denver, Facility Standard
Operating Procedure.

METHOD / ANALYST SUMMARY

D9L150578

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
ASTM D 2216-90 DEN -LC-0012	Braden H. Peterson Teresa L. Williams	6733 002510

References:

- ASTM Annual Book Of ASTM Standards.
- DEN Severn Trent Laboratories, Denver, Facility Standard
Operating Procedure.

SAMPLE SUMMARY

D9L150578

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LQ53W	001	12-10-09-01	12/10/09	14:40
LQ531	002	12-10-09-02	12/10/09	15:23
LQ532	003	12-11-09-01	12/11/09	13:45
LQ534	004	12-11-09-02	12/11/09	14:30
LQ535	005	12-11-09-03	12/11/09	15:20

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Dalton Utilities

Client Sample ID: 12-10-09-01

HPLC

Lot-Sample #....: D9L150578-001 Work Order #....: LQ53W1AA Matrix.....: SOLID
 Date Sampled....: 12/10/09 14:40 Date Received...: 12/15/09
 Prep Date.....: 12/16/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9350234 Analysis Time...: 12:14
 Dilution Factor: 10
 % Moisture.....: 29 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	88	70	ug/kg	17
Perfluoroundecanoic acid (PFUn A)	200	70	ug/kg	25
Perfluorotetradecanoic acid (P FTeA)	27 J	70	ug/kg	20
Perfluorododecanoic acid (PFDo A)	200	70	ug/kg	11
Perfluorotridecanoic acid (PFT riA)	63 J	70	ug/kg	16
Perfluorobutanoic acid (PFBA)	ND	28	ug/kg	4.8
Perfluoropentanoic acid (PFPA)	ND	28	ug/kg	12
Perfluorohexanoic acid (PFHxA)	17 J	28	ug/kg	2.8
Perfluoroheptanoic acid (PFHpA)	13 J	28	ug/kg	10
Perfluorononanoic acid (PFNA)	29	28	ug/kg	7.0
Perfluorodecanoic acid (PFDA)	330	28	ug/kg	11
Perfluorobutane sulfonate (PFB S)	39	28	ug/kg	12
Perfluorohexane sulfonate (PFH xS)	ND	28	ug/kg	11
Perfluorooctanesulfonate	70	28	ug/kg	5.3
Perfluorooctanoic Acid	79	70	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	102	(50 - 200)
13C4 PFOS	87	(50 - 200)
13C4 PFBA	91	(50 - 200)
13C2 PFHxA	99	(50 - 200)
18O2 PFHxS	93	(50 - 200)
13C5 PFNA	100	(50 - 200)
13C2 PFDA	90	(50 - 200)
13C2 PFUnA	77	(50 - 200)
13C2 PFDoA	54	(50 - 200)
MeFOSA	94	(50 - 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 12-10-09-02

HPLC

Lot-Sample #....: D9L150578-002 Work Order #....: LQ5311AA Matrix.....: SOLID
 Date Sampled....: 12/10/09 15:23 Date Received...: 12/15/09
 Prep Date.....: 12/16/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9350234 Analysis Time...: 12:29
 Dilution Factor: 10
 % Moisture.....: 34 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	76	ug/kg	19
Perfluoroundecanoic acid (PFUn A)	ND	76	ug/kg	28
Perfluorotetradecanoic acid (P FTeA)	ND	76	ug/kg	22
Perfluorododecanoic acid (PFDo A)	23 J	76	ug/kg	13
Perfluorotridecanoic acid (PFT riA)	ND	76	ug/kg	18
Perfluorobutanoic acid (PFBA)	ND	31	ug/kg	5.2
Perfluoropentanoic acid (PFPA)	ND	31	ug/kg	13
Perfluorohexanoic acid (PFHxA)	3.4 J	31	ug/kg	3.1
Perfluoroheptanoic acid (PFHpA)	ND	31	ug/kg	11
Perfluorononanoic acid (PFNA)	13 J	31	ug/kg	7.6
Perfluorodecanoic acid (PFDA)	53	31	ug/kg	12
Perfluorobutane sulfonate (PFB S)	ND	31	ug/kg	13
Perfluorohexane sulfonate (PFH xS)	ND	31	ug/kg	12
Perfluorooctanesulfonate	57	31	ug/kg	5.7
Perfluorooctanoic Acid	ND	76	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	119	(50 - 200)
13C4 PFOS	97	(50 - 200)
13C4 PFBA	108	(50 - 200)
13C2 PFHxA	115	(50 - 200)
18O2 PFHxS	110	(50 - 200)
13C5 PFNA	113	(50 - 200)
13C2 PFDA	100	(50 - 200)
13C2 PFUnA	79	(50 - 200)
13C2 PFDaO	54	(50 - 200)
MeFOSA	115	(50 - 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 12-11-09-01

HPLC

Lot-Sample #....: D9L150578-003 Work Order #....: LQ5321AA Matrix.....: SOLID
 Date Sampled....: 12/11/09 13:45 Date Received...: 12/15/09
 Prep Date.....: 12/16/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9350234 Analysis Time...: 12:44
 Dilution Factor: 10
 % Moisture.....: 40 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	83	ug/kg	20
Perfluoroundecanoic acid (PFUn A)	ND	83	ug/kg	30
Perfluorotetradecanoic acid (P FTeA)	ND	83	ug/kg	24
Perfluorododecanoic acid (PFDo A)	31 J	83	ug/kg	14
Perfluorotridecanoic acid (PFT riA)	ND	83	ug/kg	19
Perfluorobutanoic acid (PFBA)	ND	33	ug/kg	5.6
Perfluoropentanoic acid (PFPA)	ND	33	ug/kg	15
Perfluorohexanoic acid (PFHxA)	9.0 J	33	ug/kg	3.3
Perfluoroheptanoic acid (PFHpA)	ND	33	ug/kg	12
Perfluorononanoic acid (PFNA)	22 J	33	ug/kg	8.3
Perfluorodecanoic acid (PFDA)	120	33	ug/kg	13
Perfluorobutane sulfonate (PFB S)	40	33	ug/kg	14
Perfluorohexane sulfonate (PFH xS)	ND	33	ug/kg	13
Perfluorooctanesulfonate	12 J	33	ug/kg	6.2
Perfluorooctanoic Acid	38 J	83	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	119	(50	- 200)
13C4 PFOS	108	(50	- 200)
13C4 PFBA	100	(50	- 200)
13C2 PFHxA	111	(50	- 200)
18O2 PFHxS	106	(50	- 200)
13C5 PFNA	117	(50	- 200)
13C2 PFDA	111	(50	- 200)
13C2 PFUnA	109	(50	- 200)
13C2 PFDoA	97	(50	- 200)
MeFOSA	103	(50	- 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 12-11-09-02

HPLC

Lot-Sample #....: D9L150578-004 Work Order #....: LQ5341AA Matrix.....: SOLID
 Date Sampled....: 12/11/09 14:30 Date Received...: 12/15/09
 Prep Date.....: 12/16/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9350234 Analysis Time...: 12:59
 Dilution Factor: 10
 % Moisture.....: 24 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	66	ug/kg	16
Perfluoroundecanoic acid (PFUn A)	52 J	66	ug/kg	24
Perfluorotetradecanoic acid (P FTeA)	ND	66	ug/kg	19
Perfluorododecanoic acid (PFDo A)	92	66	ug/kg	11
Perfluorotridecanoic acid (PFT riA)	27 J	66	ug/kg	15
Perfluorobutanoic acid (PFBA)	ND	26	ug/kg	4.5
Perfluoropentanoic acid (PFPA)	ND	26	ug/kg	12
Perfluorohexanoic acid (PFHxA)	5.6 J	26	ug/kg	2.6
Perfluoroheptanoic acid (PFHpA)	ND	26	ug/kg	9.5
Perfluorononanoic acid (PFNA)	12 J	26	ug/kg	6.6
Perfluorodecanoic acid (PFDA)	130	26	ug/kg	9.9
Perfluorobutane sulfonate (PFB S)	42	26	ug/kg	11
Perfluorohexane sulfonate (PFH xs)	ND	26	ug/kg	10
Perfluorooctanesulfonate	45	26	ug/kg	4.9
Perfluorooctanoic Acid	23 J	66	ug/kg	13

SURROGATE	PERCENT RECOVERY	RECOVERY
		LIMITS
13C4 PFOA	105	(50 - 200)
13C4 PFOS	80	(50 - 200)
13C4 PFBA	92	(50 - 200)
13C2 PFHxA	96	(50 - 200)
18O2 PFHxS	93	(50 - 200)
13C5 PFNA	100	(50 - 200)
13C2 PFDA	86	(50 - 200)
13C2 PFUnA	67	(50 - 200)
13C2 PFDoA	47 *	(50 - 200)
MeFOSA	98	(50 - 200)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 12-11-09-03

HPLC

Lot-Sample #....: D9L150578-005 Work Order #....: LQ5351AA Matrix.....: SOLID
 Date Sampled...: 12/11/09 15:20 Date Received...: 12/15/09
 Prep Date.....: 12/16/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9350234 Analysis Time...: 13:14
 Dilution Factor: 10
 % Moisture.....: 57 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	36 J	120	ug/kg	29
Perfluoroundecanoic acid (PFUn A)	190	120	ug/kg	42
Perfluorotetradecanoic acid (P FTeA)	ND	120	ug/kg	34
Perfluorododecanoic acid (PFDo A)	250	120	ug/kg	19
Perfluorotridecanoic acid (PFT riA)	64 J	120	ug/kg	27
Perfluorobutanoic acid (PFBA)	ND	46	ug/kg	7.9
Perfluoropentanoic acid (PFPA)	ND	46	ug/kg	20
Perfluorohexanoic acid (PFHxA)	10 J	46	ug/kg	4.7
Perfluoroheptanoic acid (PFHpA)	ND	46	ug/kg	17
Perfluorononanoic acid (PFNA)	34 J	46	ug/kg	12
Perfluorodecanoic acid (PFDA)	270	46	ug/kg	18
Perfluorobutane sulfonate (PFB S)	55	46	ug/kg	19
Perfluorohexane sulfonate (PFH xS)	ND	46	ug/kg	18
Perfluorooctanesulfonate	110	46	ug/kg	8.7
Perfluorooctanoic Acid	64 J	120	ug/kg	24

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	120	(50 - 200)
13C4 PFOS	101	(50 - 200)
13C4 PFBA	105	(50 - 200)
13C2 PFHxA	115	(50 - 200)
18O2 PFHxS	109	(50 - 200)
13C5 PFNA	117	(50 - 200)
13C2 PFDA	106	(50 - 200)
13C2 PFUnA	85	(50 - 200)
13C2 PFDoA	59	(50 - 200)
MeFOSA	99	(50 - 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 12-10-09-01

General Chemistry

Lot-Sample #....: D9L150578-001 Work Order #....: LQ53W Matrix.....: SOLID
Date Sampled...: 12/10/09 14:40 Date Received..: 12/15/09
% Moisture.....: 29

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	29	0.10	%	ASTM D 2216-90	12/16/09	9350087
		Dilution Factor: 1		Analysis Time..: 09:30	MDL.....	: 0.0

Dalton Utilities

Client Sample ID: 12-10-09-02

General Chemistry

Lot-Sample #....: D9L150578-002 Work Order #....: LQ531 Matrix.....: SOLID
Date Sampled...: 12/10/09 15:23 Date Received..: 12/15/09
% Moisture.....: 34

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	34	0.10	%	ASTM D 2216-90	12/16/09	9350087
		Dilution Factor: 1		Analysis Time..: 09:30	MDL.....:	0.0

Dalton Utilities

Client Sample ID: 12-11-09-01

General Chemistry

Lot-Sample #....: D9L150578-003 Work Order #....: LQ532 Matrix.....: SOLID
Date Sampled...: 12/11/09 13:45 Date Received...: 12/15/09
% Moisture.....: 40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	40	0.10	%	ASTM D 2216-90	12/16/09	9350087
		Dilution Factor: 1		Analysis Time...: 09:30		MDL.....: 0.0

Dalton Utilities

Client Sample ID: 12-11-09-02

General Chemistry

Lot-Sample #....: D9L150578-004 Work Order #....: LQ534 Matrix.....: SOLID
Date Sampled...: 12/11/09 14:30 Date Received..: 12/15/09
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Percent Moisture	24	0.10	%	ASTM D 2216-90	ANALYSIS DATE	BATCH #
		Dilution Factor: 1		Analysis Time..: 09:30		MDL.....: 0.0

Dalton Utilities

Client Sample ID: 12-11-09-03

General Chemistry

Lot-Sample #....: D9L150578-005 Work Order #....: LQ535 Matrix.....: SOLID
Date Sampled...: 12/11/09 15:20 Date Received..: 12/15/09
% Moisture.....: 57

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	57	0.10	%	ASTM D 2216-90	12/16/09	9350087
		Dilution Factor: 1		Analysis Time..: 09:30		MDL.....: 0.0